Lumiglas®

soft-ePTFE

Product Overview

LUMIGLAS® Soft-ePTFE is a high-performance gasket material manufactured from multi-directional expanded PTFE. This high-grade material guarantees excellent corrosion resistance coupled with superior sealing capabilities.
Designed to bring sealing technology to the next level , it represents the best choice for economical plant-wide use under operating conditions up to 260°C.

Basis composition	Multi-directional expanded PTFE.
Color	White
Key Features & Benefits	**Universal Resistance:** Excellent chemical resistance to almost all media (pH 0-14). **Adaptability:** Highly compressible, adapting well to irregular or damaged flange surfaces. **Temperature Range:**Up to 260°C.

Sheet size	1500 x 1500 mm
Thickness	1.0 mm, 1.5 mm, 2.0 mm, 3.0 mm
Tolerances	
Thickness	– 10 % / + 20 %
Length:	± 50 mm
Width:	± 50 mm

Industry

Suitable for general industry including:Chemical & Petrochemical/Oil & Gas/Energy/Pulp & Paper/Food & Beverage / Pharma/Marine / Automotive / Infrastructure

TECHNICAL DATA – *Typical values for a thickness of 2.0 mm*

Compressibility	ASTM F 36 M	%	55
Recovery	ASTM F 36 M	%	15
Stress relaxation DIN 52913	30 MPa, 16 h/150°C	MPa	15
Lumiglas cold/hot compression	thickness decrease at 23°C	%	35
25 MPa	thickness decrease at 150°C	%	30
Tightness	DIN 28090-2	mg/(s x m)	0.01
Density		g/cm3	0.9

LumistarSpecial Glass Technology Co., Ltd.(https://lumiglas.ltd/)
Building 22, No. 8 Kangzheng Road, Longchi Street， Luhe District,
Nanjing, Jiangsu Province
Phone: +8618913035768
sophia@js-lumiglas.com/lumistar@188.com

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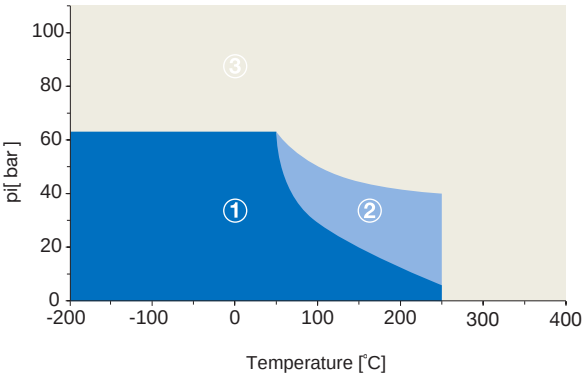
P-Tdiagram – thickness 2.0 mm



The area of the P-T diagram

① In area one, the gasket material is normally suitable subject to chemical compatibility.

② In area two, the gasket material may be suitable but a technical evaluation is recommended.

③ In area three, do not install the gasket without a technical evaluation.

Always refer to the chemical resistance of the gasket to the media.

Chemical resistance chart

Simplified overview of the chemical resistance depending on the most important groups of raw materials:

Lumiglas® ePTFE — A: small or no attack — B: weak till moderate attack — C: strong attack

Paraffinic hydrocarbon	Motor fuel	Aromates	Chlorinated hydrocarbon fluids	Motor oil	Mineral lubricants	Alcohol	Ketone	Ester	Water	Acid (diluted)	Base (diluted)
A	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**	**A**

For more information on chemical resistance please visit www.lumiglas.ltd

All information is based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behaviour in a gasket joint. The data may not, therefore, be used to support any warranty claims. Subject to technical alterations.

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